

National Functional Guidelines Report #03

Lab DATA(ALS Environmental) SDG F9L58 Case 45316 Contract EPW11037 Region 6 DDTID 216969 SOW SOM01.2

Data Review Reports

Blanks

| Blanks | VOA_Low_Med |
|--------|--|
| VLB11 | The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 Acetone F9L58, F9L59, F9L60, F9L61, F9L62, F9L64, F9L65, F9L66, F9L68, F9L70, F9L71 Methylene chloride F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| Blanks | VOA_Low_Med |
| VLB12 | The following volatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L72 Methyl tert-butyl ether F9L72 |
| Blanks | VOA_Low_Med |
| VLB46 | The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 Acetone F9L58, F9L59, F9L60, F9L61, F9L62, F9L64, F9L65, F9L66, F9L67RE, F9L68, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 Methylene chloride F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| Blanks | VOA_Low_Med |
| VLB47 | The following volatile samples have analyte concentrations reported less than the CRQL. The associated storage blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L58, F9L68, F9L69, F9L70, F9L72, F9L78, F9L79 Trichlorofluoromethane F9L58, F9L68, F9L69, F9L70, F9L72, F9L78, F9L79 |
| Blanks | VOA_Low_Med |
| VLB55 | The following volatile samples have common contaminant analyte concentrations reported greater than or equal to 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria. Detected and nondetected compounds are not qualified. F9L63, F9L67, F9L69 Acetone F9L63, F9L67, F9L69 |

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Blanks

| Blanks | Pest |
|---------------|--|
| PLB16 | The following pesticide samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 Endosulfan II F9L58, F9L59, F9L60, F9L63, F9L64, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L70, F9L72, F9L73, F9L75 gamma-Chlordane F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 Heptachlor F9L60, F9L63, F9L64, F9L65, F9L66, F9L68, F9L69, F9L78 Dieldrin F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 Endrin ketone F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L71, F9L72, F9L73, F9L75, F9L77, F9L79, PLCSS1 delta-BHC F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L78, F9L79 Endrin aldehyde F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L79, PLCSS1 beta-BHC F9L59, F9L60, F9L63, F9L64, F9L67, F9L70, F9L72, F9L73, F9L75 |
| Blanks | Pest |
| PLB17 | The following pesticide samples have analyte concentrations reported greater than or equal to the CRQL. The associated method blank concentration is less than or equal to the concentration criteria. Detected and nondetected compounds are not qualified. F9L66MS, F9L66MSD, F9L67, F9L68 Heptachlor F9L66MS, F9L66MSD, F9L67 gamma-Chlordane F9L67, F9L68 Dieldrin F9L66MS, F9L66MSD |
| Blanks | Pest |
| PLB29 | The following pesticide samples have analyte concentrations reported less than the CRQL. The associated initial instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 gamma-Chlordane F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 Methoxychlor F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 Endrin aldehyde F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 |
| Blanks | Pest |
| PLB33 | The following pesticide samples have analyte concentrations reported less than the CRQL. The associated continuing instrument blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 |

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Blanks

| Blanks | Pest |
|--------|---|
| | gamma-Chlordane F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 |
| | Methoxychlor F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| | Endrin aldehyde F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 |
| Blanks | Pest |
| PLB34 | The following pesticide samples have analyte concentrations reported greater than or equal to the CRQL. The associated continuing instrument blank concentration is less than or equal to the concentration criteria. Detected and nondetected compounds are not qualified. |
| | F9L67, F9L68 |
| | gamma-Chlordane F9L67, F9L68 |

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Continuing Calibration Verification

| Continuing Calibration Verification | VOA_Low_Med |
|-------------------------------------|--|
| VC14 | The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 |
| | 1,4-Dioxane VSTD050S0, VSTD050S7, VSTD050S8, VSTD050SB |
| | F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 |

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Continuing Calibration Verification

| Continuing Calibration Verification | BNA |
|-------------------------------------|---|
| BC10 | The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified U. |
| | F9L58, F9L59, F9L63, F9L67, F9L70 |
| | Hexachlorocyclopentadiene SSTD020M1 |
| | 3-Nitroaniline SSTD020M1 |
| | F9L58, F9L59, F9L63, F9L67, F9L70 |

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Continuing Calibration Verification

| Continuing Calibration Verification | | BNA_SIM |
|--|---|----------------|
| BC10 | The following semivolatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified U. | |
| | F9L59, F9L63, F9L67, F9L70 | |
| | Pentachlorophenol SSTD0.4DN | |
| | F9L59, F9L63, F9L67, F9L70 | |
| Continuing Calibration Verification | | BNA_SIM |
| BC14 | The following semivolatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. | |
| | F9L59, F9L63, F9L67, F9L70 | |
| | Pentachlorophenol SSTD0.4DN | |
| | F9L59, F9L63, F9L67, F9L70 | |

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DMC/Surrogate

| DMC/Surrogate | VOA_Low_Med |
|---------------|--|
| VDSS3 | The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified. |
| | F9L67, F9L67RE |
| | Benzene-d6 F9L67 |
| | Benzene |
| | 1,2-Dichloropropane-d6 F9L67 |
| | 1,2-Dichloropropane, Bromodichloromethane, Cyclohexane, Methylcyclohexane |
| | 1,2-Dichloroethane-d4 F9L67RE |
| | 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Methyl acetate, Methyl tert-butyl ether, Methylene chloride, Trichlorofluoromethane |

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DMC/Surrogate

| DMC/Surrogate | BNA |
|---------------|--|
| BDSS14 | The following semivolatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified. |
| | F9L79 |
| | Anthracene-d10 F9L79 |
| | Anthracene, Atrazine, Hexachlorobenzene, Phenanthrene |
| DMC/Surrogate | BNA |
| BDSS15 | The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ. |
| | F9L73 |
| | 4-Chloroaniline-d4 F9L73 |
| | 3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene |

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Detection Limit

| Detection Limit | VOA_Low_Med |
|-----------------|--|
| VDL1 | The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. |
| | F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 |
| | Chloroform F9L59, F9L68, F9L69, F9L70, F9L71 |
| | 1,2-Dichlorobenzene VBLKS4, VBLKS5 |
| | Methyl tert-butyl ether F9L72, VBLKS5 |
| | Trichlorofluoromethane F9L58, F9L68, F9L69, F9L70, F9L72, F9L78, F9L79, VHBLKS1 |
| | Toluene F9L58, F9L59, F9L61, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| | 1,2,3-Trichlorobenzene VBLKS4, VBLKS5 |
| | 1,4-Dichlorobenzene VBLKS4, VBLKS5 |
| | 2-Butanone F9L60, F9L70, F9L72, F9L73, F9L75, F9L77 |
| | Acetone F9L58, F9L59, F9L60, F9L61, F9L62, F9L64, F9L65, F9L68, F9L71, F9L72, F9L73, F9L78, F9L79, VBLKS4, VHBLKS1 |
| | 1,2,4-Trichlorobenzene VBLKS4, VBLKS5 |
| | 1,3-Dichlorobenzene VBLKS4, VBLKS5 |
| | Methylene chloride F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 |
| | Methylcyclohexane F9L67 |

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Detection Limit

| Detection Limit | BNA |
|-----------------|---|
| BDL1 | The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. |
| | F9L58, F9L59, F9L62, F9L63, F9L64, F9L65, F9L67, F9L78, F9L79 |
| | Di-n-butylphthalate F9L79 |
| | Benzo(k)fluoranthene F9L58 |
| | Chrysene F9L64 |
| | Anthracene F9L58 |
| | Carbazole F9L58 |
| | Acenaphthene F9L58 |
| | Benzo(b)fluoranthene F9L67 |
| | Benzo(g,h,i)perylene F9L58 |
| | Fluorene F9L58 |
| | Benzo(a)pyrene F9L58 |
| | Indeno(1,2,3-cd)pyrene F9L58 |
| | Bis(2-ethylhexyl)phthalate F9L58, F9L59, F9L62, F9L63, F9L64, F9L65, F9L67, F9L78 |
| | Dibenzo(a,h)anthracene F9L58 |

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Detection Limit

| Detection Limit | BNA_SIM |
|-----------------|---|
| BDL1 | The following semivolatile samples have analyte concentrations below the quantitaion limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. |
| | F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L72, F9L73, F9L75, F9L78, F9L79 |
| | Benzo(k)fluoranthene F9L58, F9L59, F9L60, F9L62, F9L63, F9L64, F9L65, F9L66, F9L68, F9L70, F9L78 |
| | Anthracene F9L58, F9L60, F9L63, F9L64, F9L65, F9L68, F9L70 |
| | Fluoranthene F9L59, F9L61, F9L62, F9L68, F9L69, F9L70, F9L75, F9L78 |
| | Fluorene F9L58 |
| | Benzo(g,h,i)perylene F9L58, F9L59, F9L62, F9L65, F9L66, F9L67, F9L70, F9L72, F9L73, F9L75, F9L78 |
| | Naphthalene F9L60, F9L61 |
| | Pyrene F9L59, F9L61, F9L69, F9L75 |
| | Indeno(1,2,3-cd)pyrene F9L59, F9L62, F9L66, F9L69, F9L70, F9L75, F9L78 |
| | Acenaphthylene F9L59, F9L60, F9L63, F9L64, F9L65, F9L67, F9L68, F9L78 |
| | Benzo(a)anthracene F9L59, F9L61, F9L62, F9L69, F9L70, F9L75, F9L78 |
| | Chrysene F9L59, F9L61, F9L62, F9L69, F9L70, F9L75, F9L78, F9L79 |
| | Phenanthrene F9L59, F9L60, F9L61, F9L62, F9L65, F9L66, F9L68, F9L70, F9L75, F9L78 |
| | Acenaphthene F9L58, F9L65, F9L67, F9L73 |
| | Benzo(b)fluoranthene F9L61, F9L62, F9L69, F9L70, F9L75, F9L78 |
| | Benzo(a)pyrene F9L59, F9L62, F9L66, F9L68, F9L69, F9L70, F9L75, F9L78 |
| | 2-Methylnaphthalene F9L59, F9L60, F9L61, F9L64, F9L67, F9L70 |
| | Pentachlorophenol F9L60, F9L62 |
| | Dibenzo(a,h)anthracene F9L58, F9L60, F9L63, F9L64, F9L65, F9L67, F9L68 |

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Detection Limit

| Detection Limit | Pest |
|-----------------|--|
| PDL1 | The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PBLKS1, PLCSS1 Endosulfan II F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, PBLKS1 4,4'-DDT F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75 Dieldrin F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PBLKS1, PLCSS1 gamma-BHC (Lindane) F9L58, F9L60, F9L61, F9L62, F9L63, F9L65, F9L67, F9L68, F9L70, F9L71, F9L75, F9L78, PLCSS1 delta-BHC F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L78, F9L79, PBLKS1 Endrin aldehyde F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L70, F9L71, F9L72, F9L73, F9L75, F9L78, F9L79, PBLKS1, PLCSS1 beta-BHC F9L59, F9L60, F9L63, F9L64, F9L67, F9L70, F9L72, F9L73, F9L75, PBLKS1 alpha-Chlordane F9L69 Endosulfan sulfate F9L63, F9L67, F9L68, F9L70, F9L71, F9L78, PLCSS1 4,4'-DDE F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L68, F9L69, F9L71, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 gamma-Chlordane F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PBLKS1, PLCSS1 4,4'-DDD F9L58, F9L59, F9L60, F9L63, F9L64, F9L65, F9L66, F9L66MSD, F9L69, F9L70, F9L72, F9L73, F9L75 Heptachlor F9L60, F9L63, F9L64, F9L65, F9L66, F9L68, F9L69, F9L78, PBLKS1 Endrin ketone F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L71, F9L72, F9L73, F9L75, F9L77, F9L79, PBLKS1, PLCSS1 Methoxychlor F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66MS, F9L67, F9L70, F9L72, F9L75, F9L78, F9L79 Endrin F9L58, F9L59, F9L61, F9L62, F9L67, F9L68, F9L70, F9L71, F9L73, F9L77, PLCSS1 Heptachlor epoxide F9L58, F9L59, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PLCSS1 alpha-BHC F9L59, F9L61, F9L66MSD, F9L67, F9L68, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| Detection Limit | Pest |
| PDL3 | The percent difference between analyte results for the following pesticide samples is greater than 25%. Detected and nondetected compounds are not qualified. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PBLKS1 Endosulfan II F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L70, F9L73, F9L75, PBLKS1 4,4'-DDT F9L60, F9L61, F9L62, F9L64, F9L66, F9L67, F9L68, F9L72, F9L73, F9L75 Dieldrin F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L72, F9L73, F9L77, F9L78, F9L79, PBLKS1 |

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Detection Limit

| Detection Limit | Pest |
|-----------------|--|
| | gamma-BHC (Lindane) F9L58, F9L61, F9L62, F9L63, F9L67, F9L68, F9L70, F9L71, F9L75, F9L78 |
| | delta-BHC F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L78, F9L79 |
| | Endrin aldehyde F9L58, F9L59, F9L60, F9L61, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L73, F9L78 |
| | beta-BHC F9L59, F9L63, F9L64, F9L67, F9L70, F9L73, F9L75 |
| | alpha-Chlordane F9L67, F9L68, F9L69 |
| | Endosulfan sulfate F9L63, F9L67, F9L68, F9L70, F9L71, F9L78 |
| | 4,4'-DDE F9L58, F9L61, F9L62, F9L63, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L73, F9L75, F9L77, F9L78, F9L79 |
| | 4,4'-DDD F9L58, F9L59, F9L60, F9L63, F9L64, F9L65, F9L66, F9L66MSD, F9L67, F9L69, F9L70, F9L72, F9L73, F9L75 |
| | Heptachlor F9L60, F9L63, F9L64, F9L65, F9L66, F9L68, F9L69, F9L78, PBLKS1 |
| | gamma-Chlordane F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L66MS, F9L66MSD, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, PBLKS1 |
| | Endrin ketone F9L58, F9L59, F9L60, F9L61, F9L62, F9L64, F9L67, F9L68, F9L69, F9L71, F9L72, F9L73, F9L77, F9L79, PBLKS1 |
| | Methoxychlor F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66MS, F9L67, F9L70, F9L72, F9L75, F9L78, F9L79 |
| | Endrin F9L58, F9L59, F9L61, F9L62, F9L67, F9L70, F9L77 |
| | Heptachlor epoxide F9L58, F9L59, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| | alpha-BHC F9L61, F9L66MSD, F9L67, F9L68, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |

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Detection Limit

| Detection Limit | Aroclor |
|-----------------|---|
| ADL1 | The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified. |
| | ALCSS1 |
| | Aroclor-1016 ALCSS1 |

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Holding Times

| Holding Times | BNA |
|---------------|--|
| BHT4 | The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ. |
| | F9L58, F9L59, F9L63, F9L67, F9L70 |

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Holding Times

| Holding Times | BNA_SIM |
|---------------|--|
| BHT4 | The following semivolatile samples are outside primary analysis holding time criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ. |
| | F9L59, F9L63, F9L67, F9L70 |

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Initial Calibration

| Initial Calibration | | VOA_Low_Med |
|----------------------------|---|--------------------|
| VC15 | The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 | |
| | 1,4-Dioxane VSTD005SE, VSTD010SE, VSTD050SE, VSTD100SE, VSTD200SE F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 | |
| Initial Calibration | | VOA_Low_Med |
| VC20 | The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 | |
| | 1,4-Dioxane-d8 VSTD005SE, VSTD010SE, VSTD050SE, VSTD100SE, VSTD200SE F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L67RE, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, VBLKS4, VBLKS5, VHBLKS1 | |

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Internal Standard

| Internal Standard | VOA_Low_Med |
|-------------------|--|
| VIS31 | The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified R. |
| | F9L67, F9L67RE |
| | 1,4-Dichlorobenzene-d4 F9L67, F9L67RE |
| | 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromoform |

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Matrix Spikes

| Matrix Spikes | Pest |
|---------------|---|
| PMS1 | The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are not qualified. |
| | F9L66MS, F9L66MSD |
| | Heptachlor F9L66MS, F9L66MSD |

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Matrix Spikes

| Matrix Spikes | Aroclor |
|---------------|--|
| AMS1 | The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. Detected compounds in parent sample are qualified J. Nondetected compounds in parent sample are not qualified. |
| | F9L66MS, F9L66MSD |
| | Aroclor-1016 F9L66MS, F9L66MSD |

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TIC

| TIC | BNA |
|-------|--|
| BTIC1 | A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified. F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, SBLK83 9-Octadecenoic acid, methyl ester, (E)- F9L63 |
| | Tridecanoic acid, methyl ester F9L58 |
| | 13-Docosenamide, (Z)- F9L60, F9L61, F9L62, F9L66, F9L68, F9L69, F9L71, F9L72, F9L73, F9L75, F9L77, F9L79 |
| | 12-Octadecenoic acid, methyl ester F9L67 |
| | 3-Hexen-2-one F9L72 |
| | trans-13-Octadecenoic acid, methyl ester F9L67 |
| | Hexadecanamide F9L59, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L71, F9L72, F9L73, F9L75, F9L78, F9L79, SBLK83 |
| | Pentadecanoic acid, 14-methyl-, methyl ester F9L58, F9L70 |
| | 1,2-Dicarbadodecaborane(12), 1-[(propylthio)meth- F9L62 |
| | Dodecanamide F9L58, F9L59, F9L63, F9L67, F9L70 |
| | Tetradecanamide F9L60, F9L61, F9L75, F9L77, F9L79 |
| | Stigmast-4-en-3-one F9L60, F9L75, F9L78 |
| | Methyl 11-hexadecenoate F9L58, F9L63 |
| | 9-Octadecenoic acid (Z)-, methyl ester F9L78 |
| | Methyl stearate F9L67 |
| | 9-Hexadecenoic acid, methyl ester, (Z)- F9L58, F9L63, F9L67, F9L75, F9L78 |
| | Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, (1.alph- F9L67 |
| | Phenanthrene, 2-methyl- F9L58 |
| | 9,12-Octadecadienoic acid, methyl ester, (E,E)- F9L63, F9L67 |
| | 11-Octadecenoic acid, methyl ester F9L75 |
| | Furan, 2,5-dimethyl- F9L61, F9L69, F9L79 |
| | Hexadecanoic acid, 15-methyl-, methyl ester F9L67 |
| | 9-Octadecenamide, (Z)- F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, SBLK83 |
| | 3-Buten-2-one, 3-methyl- F9L59, F9L70 |
| | Pyrido[2,3-d]pyrimidine-2,4(1H,3H)-dione, 1-ethy F9L78 |

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TIC

| TIC | BNA |
|-------|---|
| | cis-13-Octadecenoic acid, methyl ester F9L63 |
| | 10-Octadecenoic acid, methyl ester F9L58, F9L70 |
| | n-Hexadecanoic acid F9L59, F9L62 |
| | 9,12-Octadecadienoic acid (Z,Z)-, methyl ester F9L58 |
| | Methyl 13-methyltetradecanoate F9L63, F9L67 |
| | Octadecanamide F9L63 |
| | Pentafluoropropionic acid, tridecyl ester F9L67 |
| | 9,15-Octadecadienoic acid, methyl ester, (Z,Z)- F9L70 |
| | cis-9,10-Epoxyoctadecanamide F9L67 |
| | Hexadecanoic acid, methyl ester F9L60, F9L63, F9L67, F9L75, F9L78 |
| | Squalene F9L63 |
| TIC | BNA |
| BTIC2 | A library search indicates a match below 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified. Non-detected compounds are not qualified. |
| | F9L58, F9L59, F9L60, F9L61, F9L62, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79, SBLK83 |
| | Unknown D:C-Friedo-B':A'-neogammacer-9(11)-ene, 3-methox F9L61, F9L62 |
| | Unknown Farnesyl bromide F9L77 |
| | Unknown N-(3-Methyl-2,5-dioxo-imidazolidin-4-yl)-acetami F9L69, F9L72 |
| | Unknown 1,2-Benzenedicarboxylic acid F9L61 |
| | Unknown 2H-Cyclopentacyclooctene, 4,5,6,7,8,9-hexahydro- F9L77, F9L79 |
| | Unknown D:A-Friedooleanan-28-al, 3-oxo- F9L66 |
| | Unknown Thiophene, 2-ethynyl-5-[(trimethylsilyl)ethynyl] F9L73 |
| | Unknown 1,2-Ethanediol F9L59 |
| | Unknown Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-1,8a-dim F9L66, F9L68, F9L70 |
| | Unknown 1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,7b-octah F9L61 |
| | Unknown Heptamethyl-3-phenyl-1,4-cyclohexadiene F9L61 |
| | Unknown 4-Phosphacyclopentene, 4-mesityl- F9L72, F9L73 |
| | Unknown Chloromethyl 7-chlorodecanoate F9L66 |

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TIC

| TIC | BNA |
|-----|---|
| | Unknown Isoquinoline, 1,2,3,4-tetrahydro-6,7-dimethoxy-2 F9L62 |
| | Unknown Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl) F9L59 |
| | Unknown 7-Nonenamide F9L59, F9L66, F9L70 |
| | Unknown D-Friedoolean-14-ene, 3-methoxy-, (3.beta.)- F9L60, F9L61, F9L75 |
| | Unknown Nona-2,3-dienoic acid, ethyl ester F9L63 |
| | Unknown Propanoic acid, 2,2-dimethyl-, cyclohexyl ester F9L58 |
| | Unknown 2,6-Octadienoic acid, 3-methyl-, methyl ester, (F9L71 |
| | Unknown Ergosta-7,22-dien-3-ol, acetate, (3.beta.,5.alph F9L72, F9L77 |
| | Unknown Phenanthrene, 4-methyl- F9L58 |
| | Unknown 2-Pentanone, 4-hydroxy- F9L58, F9L59, F9L60, F9L61, F9L62, F9L65, F9L66, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| | Unknown Propane, 1-(1-methylethoxy)- F9L70 |
| | Unknown Squalene F9L67 |
| | Unknown 2-Pentanone, 5-(acetoxy)- F9L63 |
| | Unknown Lanosterol F9L71, F9L73 |
| | Unknown .delta.-Selinene F9L66 |
| | Unknown Cyclododecanone, 2-methyl- F9L65 |
| | Unknown [2.2]Paracyclophane SBLK83 |
| | Unknown Propane, 2,2-dimethoxy- F9L60, F9L61, F9L62, F9L66, F9L68, F9L69, F9L72, F9L73, F9L75, F9L77, F9L79, SBLK83 |
| | Unknown 1,2,3-Propanetriol, 1-acetate F9L67 |
| | Unknown 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4 F9L75 |
| | Unknown 2-Nonanone F9L65 |
| | Unknown 1,5-Hexadiene, 2,5-dipropyl- F9L62, SBLK83 |
| | Unknown Silane, diethylhexadecyloxy(3-methylbutoxy)- F9L66 |
| | Unknown Spiro[4.5]dec-7-ene, 1,8-dimethyl-4-(1-methyleth F9L79 |
| | Unknown 4H-Imidazol-4-one, 2-amino-1,5-dihydro- F9L67 |
| | Unknown Hexadecanamide F9L62 |
| | Unknown 2,3-2H-Quinolin-2-one, 3,3,4,6-tetramethyl- F9L79 |

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TIC

| TIC | BNA |
|-----|---|
| | Unknown 2(5H)-Furanone, 5,5-dimethyl- F9L64, F9L66, F9L79 |
| | Unknown 2,5,5,8a-Tetramethyl-6,7,8,8a-tetrahydro-5H-naph F9L62, F9L69, F9L72, F9L73 |
| | Unknown 1,3a-Ethano-3aH-indene, 1,2,3,6,7,7a-hexahydro-2 F9L62, F9L75, F9L77 |
| | Unknown Isonipeptic acid, N-(3-chloropropionyl)-, octyl F9L62 |
| | Unknown 2,3-Butanedione F9L58 |
| | Unknown 2-(2-Methoxyethoxy)ethyl acetate F9L75, F9L77, F9L78 |
| | Unknown 2-Chloro-5-hydroxy-2,4,6-cycloheptatrien-1-one F9L62, F9L68, F9L79 |
| | Unknown Ethanol, 2-(2-ethoxyethoxy)- F9L59 |
| | Unknown (1S,6R,9S,10S)-5,5,9,10-Tetramethyltricyclo[7.3. F9L62, F9L79 |
| | Unknown 2,6-Decadienoic acid, 3-methyl-, ethyl ester, (E F9L79 |
| | Unknown 2-Cyclohexyl-isoxazolidin-5-ol F9L64, F9L77 |
| | Unknown 1-Naphthalenecarboxylic acid, decahydro-1,4a-dim F9L62, F9L66, F9L73 |
| | Unknown 3-Buten-2-one, 3-methyl- F9L58 |
| | Unknown Tetradeceanamide F9L58, F9L64, F9L77 |
| | Unknown Furan, tetrahydro-2-(methoxymethyl)- F9L67 |
| | Unknown 1,3-Dioxolane, 2,2-dimethyl- F9L59 |
| | Unknown 1(2H)-Dibenzofuranone, 3,4-dihydro-8-methoxy- F9L58, F9L59 |
| | Unknown Sesquirosefuran F9L61 |
| | Unknown 9-Octadecenamide, (Z)- F9L58, F9L61, F9L63, F9L71, F9L75, F9L77, F9L79, SBLK83 |
| | Unknown 2,6-Bis(4-nitro-phenylthio)pyridine F9L61 |
| | Unknown 1H-Pyrrole-2,5-dione F9L58, F9L59, F9L63, F9L67, F9L70 |
| | Unknown 28-Norolean-17-en-3-one F9L70 |
| | Unknown 1,3-Dimethylimidazole-2(3H)-thione F9L78 |
| | Unknown Methacrylamide F9L58, F9L59, F9L63, F9L70 |
| | Unknown 2-Pentanone, 4-hydroxy-4-methyl- F9L58, F9L59, F9L60, F9L61, F9L63, F9L64, F9L65, F9L66, F9L67, F9L68, F9L69, F9L70, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, F9L79 |
| | Unknown Guanidine F9L62, SBLK83 |
| | Unknown .gama.-eudesmol F9L71 |

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TIC

| TIC | BNA |
|-----|--|
| | Unknown Butanal, ethylhydrazone F9L63 |
| | Unknown 7,7-Dimethyl-2,3-dioxobicyclo[2.2.1]heptane-1-ca F9L70 |
| | Unknown 3-Hexene-2,5-dione F9L60, F9L61, F9L62, F9L65, F9L68, F9L69, F9L71, F9L72, F9L73, F9L75, F9L77, F9L78, SBLK83 |
| | Unknown 3-(2-Isopropyl-5-methylphenyl)-2-methyl-1-propan F9L61 |
| | Unknown Nonanamide F9L67 |
| | Unknown 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-dien F9L71, F9L78 |
| | Unknown Pentanoic acid, 2,2,4-trimethyl-3-carboxyisoprop SBLK83 |
| | Unknown TATP F9L66 |
| | Unknown Cyclohexene, 3-methyl-6-(1-methylethyl)- F9L70 |
| | Unknown 1,4-Dimethyl-8-isopropylidenetricyclo[5.3.0.0(4, F9L75 |
| | Unknown 5-Chlorovaleramide, N,N-dimethyl- F9L68 |
| | Unknown 9,11-Epoxytestosterone acetate F9L61, F9L78 |
| | Unknown Phthalic acid, monoethyl ester F9L58, F9L59 |
| | Unknown Pentane, 3-methoxy- F9L71, F9L78 |
| | Unknown 2H-Pyran-2-one, tetrahydro-6-pentyl- F9L58 |
| | Unknown Butanoic acid, 2-butoxy-1-methyl-2-oxoethyl este F9L58 |
| | Unknown 2-Pentanone F9L58, F9L67, F9L70 |
| | Unknown 2-Isopropenyl-4a,8-dimethyl-1,2,3,4,4a,5,6,8a-oc F9L72 |
| | Unknown Cyclohexanecarboxamide F9L58, F9L67, F9L73 |
| | Unknown Isopropyl acetate F9L67 |
| | Unknown Imidazole, 4-methyl-5-[3,3,3-trifluoropropionylp F9L77 |
| | Unknown Undecanamide, 11-bromo- F9L58, F9L59 |
| | Unknown 1,6-Dihydropyridazine-3-carboxylic acid, 5-cyano F9L75 |
| | Unknown Pyrazinamide F9L59 |
| | Unknown Palmitic acid vinyl ester F9L59 |
| | Unknown Phthalic anhydride F9L59, F9L60, F9L63, SBLK83 |
| | Unknown 1,2,4-Oxadiazol-5(4H)-one, 4-(2-chlorophenyl)-3- F9L71, F9L72 |

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TIC

| TIC | BNA |
|-----|---|
| | Unknown 4,4-Dimethyl-oct-5-enal F9L59 |
| | Unknown Oxirane, butyl- F9L67 |
| | Unknown 2-Pentanone, 3-methyl- F9L63 |
| | Unknown Naphthalene, decahydro-4a-methyl-1-methylene-7-(F9L77 |
| | Unknown 1-Naphthalenemethanamine, alpha.-methyl-, (R)- F9L65, F9L66 |